

ABSTRACT OF THE DISCLOSURE

1 A wireless network can be easily optimized utilizing processes according to the
2 present invention. A simulation environment allows a network engineer to vary
3 parameters (e.g., antenna height, tilt, and power) of a virtual model of the wireless network
4 and observe how the changes affect coverage. Algorithms also enable hand off timing
5 parameters for sectors in a wireless network to be optimized. One algorithm analyzes
6 measured data regarding network coverage and regional terrain to arrive at a report
7 containing recommended values for window size parameters (code division systems) or
8 timing advance parameters (time division systems). Another algorithm analyzes measured
9 data regarding network coverage to arrive at a report containing recommended neighbor
10 lists for each sector in the network.

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